

Claim 1 (Canceled). An assembly tool for assembly of a first component of a prosthesis to a second component of the prosthesis for use in joint arthroplasty, said tool comprising:

a first member operably associated with the first component, said first member defining a first member longitudinal axis thereof; and

a second member operably associated with the second component, said second member defining a second member longitudinal axis thereof, said second member adapted to provide relative motion of said second member with respect to said first member when said second member is rotated relative to said first member about the second member longitudinal axis.

Claim 2 (Canceled). The assembly tool of claim 1, wherein the relative motion of said second member with respect to said first member corresponds to the relative motion of the first component with respect to the second component to urge the second component into engagement with the first component.

Claim 3 (Canceled). The assembly tool of claim 1:

wherein said first member comprises a first member relative motion feature; and

wherein said second member comprises a second member relative motion feature, the first member relative motion feature and the second member relative motion feature cooperating with each other to provide the relative motion of said first member with respect to said second member.

Claim 4 (Canceled). The assembly tool of claim 3, wherein at least one of said first member relative motion feature and said second member relative motion feature comprises threads

Claim 5 (Canceled). The assembly tool of claim 4, wherein at least one of said first member relative motion feature and said second member relative motion feature is adapted to provide for a predetermined limited amount of relative motion of said first member with respect to said second member along the second member longitudinal axis.

Claim 6 (Canceled). The assembly tool of claim 1, wherein at least one of said first member and said second member comprise a handle extending outwardly from the corresponding one of said first member and said second member.

Claim 7 (Canceled). The assembly tool of claim 1:
wherein said first member comprises a body defining a generally cylindrical longitudinal opening therein; and
wherein said second member comprises a portion thereof matingly fitted to traverse with the cylindrical longitudinal opening of said first member.

Claim 8 (Currently amended). ~~The assembly tool of claim 7: An~~
assembly tool for assembly of a first component of a prosthesis to a second
component of the prosthesis for use in joint arthroplasty, said tool comprising:
a first member operably associated with the first component, said first
member defining a first member longitudinal axis thereof; and
a second member operably associated with the second component, said
second member defining a second member longitudinal axis thereof, said
second member adapted to provide relative motion of said second member with
respect to said first member when said second member is rotated relative to said
first member about the second member longitudinal axis, wherein said first
member includes a body defining a generally cylindrical longitudinal opening
therein, wherein said second member includes a portion thereof matingly fitted to
traverse with the cylindrical longitudinal opening of said first member, wherein
said first member defines a spiral shaped slot therein extending from the
cylindrical longitudinal opening to the outer periphery of said first member;₁ and
wherein said second member defines a pin extending outwardly from said
second member and matingly fitted to traverse with the slot so that as said first
member is rotated along the first member longitudinal axis relative said second
member, said first member is urged relative the said second member along the
first member longitudinal axis.

Claim 9 (Original). The assembly tool of claim 8, wherein said second
member has a two-piece construction including a spool having a central portion

having first and second ends and having first and second restraining portions extending from the first and second ends, respectively, and including a ring contained within the spool and rotatable therewithin, the ring operably associated with the pin.

Claim 10 (Canceled). The assembly tool of claim 1, wherein at least one of said first member and said second member has a two-piece construction.

Claim 11 (Canceled). The assembly tool of claim 1, further comprising a third member cooperable with one of said first member and said second member to urge one of the first component and the second component against one of said first member and said second member.

Claim 12 (Canceled). The assembly tool of claim 1:
wherein the first component defines an internal taper therein;
wherein the second component includes an external taper thereon and an external thread extending from the external taper; and
wherein said second member defines an internal thread for mating engagement with the external thread of the second component.

Claim 13 (Canceled). The assembly tool of claim 1, further comprising one of a displacement measuring device and force measuring device for

measuring the corresponding one of the displacement and force related to the relative motion of said second member with respect to said first member.

Claim 14 (Canceled). The assembly tool of claim 1, wherein the first member longitudinal axis and the second member longitudinal axis are coincident.

Claim 15 (Canceled). The assembly tool of claim 1, wherein when said second member is rotated about the second member longitudinal axis, said first member moves relative to said second member along the longitudinal axis of said second member.

Claim 16 (Canceled). An assembly tool for assembly of a first component of a prosthesis to a second component of the prosthesis for use in joint arthroplasty, said tool comprising:

a first member operably associated with the first component, said first member defining a first member longitudinal axis thereof, said first member including a first member relative motion feature and a body defining a generally cylindrical longitudinal opening therein; and

a second member operably associated with the second component, said second member having a portion thereof matingly fitted to the cylindrical longitudinal opening of said first member, said second member defining a second member longitudinal axis thereof, said second member adapted to

provide relative motion of said second member with respect to said first member along the longitudinal axis of said second member when said second member is rotated relative to said first member about the second member longitudinal axis, the second member including a second member relative motion feature, the first member relative motion feature and the second member relative motion feature cooperating with each other to provide the relative motion of said first member with respect to said second member, the relative motion of said second member with respect to said first member corresponding to the relative motion of the first component with respect to the second component to urge the second component into engagement with the first component.

Claim 17 (Canceled). The assembly tool of claim 16, wherein at least one of the first member relative motion feature and the second member relative motion feature comprises threads.

Claim 18 (Canceled). The assembly tool of claim 16, wherein at least one of the first member relative motion feature and the second member relative motion feature are adapted to provide for a predetermined limited amount of relative motion of said first member with respect to said second member along the second member longitudinal axis.

Claim 19 (Currently amended). ~~The assembly tool of claim 16: An~~
assembly tool for assembly of a first component of a prosthesis to a second
component of the prosthesis for use in joint arthroplasty, said tool comprising:
a first member operably associated with the first component, said first
member defining a first member longitudinal axis thereof, said first member
including a first member relative motion feature and a body defining a generally
cylindrical longitudinal opening therein; and
a second member operably associated with the second component, said
second member having a portion thereof matingly fitted to the cylindrical
longitudinal opening of said first member, said second member defining a
second member longitudinal axis thereof, said second member adapted to
provide relative motion of said second member with respect to said first member
along the longitudinal axis of said second member when said second member is
rotated relative to said first member about the second member longitudinal axis,
the second member including a second member relative motion feature, the first
member relative motion feature and the second member relative motion feature
cooperating with each other to provide the relative motion of said first member
with respect to said second member, the relative motion of said second member
with respect to said first member corresponding to the relative motion of the first
component with respect to the second component to urge the second
component into engagement with the first component, wherein said first member
defines a spiral shaped slot therein extending from the cylindrical longitudinal
opening to the outer periphery of said first member; and wherein said second

member defines a pin extending outwardly from said second member and matingly fitted to traverse with the slot so that as said first member is rotated along the first member longitudinal axis relative to said second member, said first member is urged relative to the said second member along the first member longitudinal axis.

Claim 20 (Original). The assembly tool of claim 19, wherein said second member has a two-piece construction including a spool having a central portion having first and second ends and having first and second restraining portions extending from the first and second ends, respectively, and including a ring contained within the spool and rotatable therewithin, the ring operably associated with the pin.

Claim 21 (Canceled). A kit for use in joint arthroplasty, said kit comprising:

an implant for implantation at least partially in the medullary canal of a long bone, said implant including a first component and a second component removably attachable to the first component; and

an assembly tool including a first member operably associated with the first component, the first member defining a first member longitudinal axis thereof and a second member operably associated with the second component, the second member defining a second member longitudinal axis thereof, the second member adapted to provide relative motion of the second member with

respect to the first member when the second member is rotated relative to the first member about the second member longitudinal axis.

Claim 22 (Canceled). The kit of claim 21:
wherein the first member of said assembly tool comprises a first member relative motion feature; and
wherein the second member of said assembly tool comprises a second member relative motion feature, the first member relative motion feature and the second member relative motion feature cooperating with each other to provide the relative motion of the first member with respect to the second member.

Claim 23 (Canceled). The kit of claim 21, wherein at least one of said first member relative motion feature and said second member relative motion feature are adapted to provide for a predetermined limited amount of relative motion of said first member with respect to said second member along the second member longitudinal axis.

Claim 24 (Canceled). The kit of claim 21:
wherein the first member of said assembly tool comprises a body defining a generally cylindrical longitudinal opening therein; and
wherein the second member of said assembly tool comprises a portion thereof matingly fitted to traverse along the cylindrical longitudinal opening of said first member.

Claim 25 (Canceled). A method for providing joint arthroplasty comprising:

providing an prosthesis including a first component and a second component removably attachable to the first component;

providing a instrument having a first member and a second member rotatably moveable with respect to the first member in a plane perpendicular with the first member, the first member cooperable with the first component and the second member cooperable with the second component;

assembling the first component to the second component;

connecting the first member of the tool to the first component;

connecting the second member of the tool to the second component; and

rotating the first member of the tool with respect to the second member of the tool to secure the first component to the second component.